
Differential Equations

Math 341 Fall 2008
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Fowler 307 MWF 2:30pm - 3:25pm
<http://faculty.oxy.edu/ron/math/341/08/>

Week 6

Monday September 29 : *Worksheet 13*

Euler's Method for Systems. It's baaaaaaack! We will look at how to implement the numerical technique Euler's Method when one has a linear system of ODEs and initial conditions $\frac{d\vec{x}}{dt} = \vec{F}(\vec{x}), \quad \vec{x}(0) = \vec{x}_0.$

Reading:

Blanchard, Section 2.4

Homework #14:

Blanchard, Section 2.3: 3, 4, 7, 11.

Blanchard, Section 2.4: 2, 4.

Reading Quiz #3

Take Home Quiz #3 DUE.

Wednesday October 1 : *Worksheet 14*

Review for Exam #1 We'll review the material from the first two chapters of the book.

Reading:

Blanchard, Chapter 2

Homework #14:

Blanchard, Chapter 2 Review: 2, 10, 11, 13, 14, 19, 20, 28, 30.

Friday October 3 : *Exam #1*

First Order DEs and First-Order Systems. The first exam is on the material in the first two chapters of Blanchard, Devaney & Hall.

Reading:

Blanchard, Chapter 1 and Chapter 2